



PATENT
Attorney Docket No. P06331US01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : LI, et al.
SERIAL NO : 10/628,296
FILED : July 28, 2003
TITLE : PLANT CELL WALL LOOSENING ACTIVITY OF GROUP 2/3
ALLERGENS OF GRASS POLLEN

**INFORMATION DISCLOSURE STATEMENT
FILED WITHIN THREE MONTHS OF FILING OR
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This information disclosure statement is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, or before the mailing of a first office action after the filing of a request for continued examination, whichever event occurs last.

Attached are Forms PTO/SB/08A and 08B (formerly Form PTO-1449) listing the relevant art known to the applicant herein. Copies of the references are enclosed. The Examiner is requested to consider the references and make them of record.

Applicants disclose herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

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Heidi S. Nebel

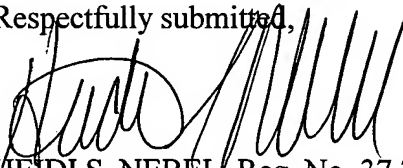
which, there may be a duty to disclose. Legible copies of all items listed in Forms PTO/SB/08A and 08B (formerly Form PTO-1449) accompany this information statement, except those identified above.

Several items of information contained in this information disclosure statement were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. Also attached is a copy of the International Search Report.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

Respectfully submitted,



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Attorneys of Record



Complete if Known

Application Number	10/628,296
Filing Date	July 28, 2003
First Named Inventor	Li, et al.
Art Unit	1638
Examiner Name	
Attorney Docket Number	P06331US01

(Use as many sheets as necessary)

Sheet	1	of	2
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[illegible][illegible]Date
Considered

⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/628,296		
		Filing Date	July 28, 2003		
		First Named Inventor	LI, et al.		
		Group Art Unit			
		Examiner Name			
Sheet	2	of	2	Attorney Docket Number	P06331US01

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	Ansari, Aftab A., et al. "Complete Primary Structure of a <i>Lolium perenne</i> (Perennial Rye Grass) Pollen Allergen, Lol p III: Comparison with Known Lol p I and II Sequences", 1989 American Chemical Society	
	2	Brenner et al., "Assessing sequence comparison methods with reliable structurally identified distant evolutionary relationships", Proc. Natl. Acad. Sci. USA 95:6073-6078 (1998)	
	3	McQueen-Mason, Simon, et al. "Disruption of hydrogen bonding between plant cell wall polymers by proteins that induce wall extension" Proc. Natl. Acad. Sci. USA, Vol 91, pp. 6574-6578, July 1994	
	4	Cosgrove, Daniel J. "Loosening of Plant Cell Walls by Expansins" NATURE Vol. 407121 September, 2000	
	5	Grobe, Kay, et al. "Properties of group I allergens from grass pollen and their relation to cathepsin B, a member of the C1 family of cysteine proteinases" Eur. J. Biochem 269, 2083-2092 (2002)	
	6	Li, Lian-Chao, et al. "Grass group I pollen allergens (β-expansins) lack proteinase activity and do not cause wall loosening via proteolysis" Eur. J. Biochem. 268. 4217-4226 (2001)	
	7	McQueen-Mason et al., "Disruption of hydrogen bonding between plant cell wall polymers by proteins that induce wall extension", Proc. Natl. Acad. Sci. USA 91:6574-6578 (1994)	
	8	McQueen-Mason et al., "Expansin Mode of Action on Cell Walls", Plant Physiol. 107:87-100 (1995)	
	9	Nagy, "A glance posterior" Current Biology 4:811-814 (1994)	
	10	Nishitani et al., "Endo-xyloglucan Transferase, a Novel Class of Glycosyltransferase That Catalyzes Transfer of a Segment of Xyloglucan Molecule to Another Xyloglucan Molecule", The J. of Biological Chemistry, 267(29):21058-21064 (1992)	
	11	Skolnick et al., "From genes to protein structure and function: novel applications of computational approaches in the genomic era", TIBTECH 18:34-39 (2000)	
	12	Taiz, "Expansins: Proteins that promote cell wall loosening in plants", Proc. Natl. Acad. Sci. USA 91:7398-7389 (1994)	
	13	Wu et al., "Analysis and Expression of the α-Expansin and β-Expansin Gene Families in Maize", Plant Physiology 126:222-232 (2001)	

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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